AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-9.   (Canceled)

10.   (Currently amended) An information processing device comprising:

a first storage means[[,]] for storing an encrypted first key encrypted by a second key <u>shared with another device and a decoding means</u>, the first storage means comprising:

first authentication means for authenticating <u>the decoding means</u> and generating a temporary key <u>shared with the decoding means</u>;

first encrypting/decrypting means for decrypting the encrypted first key with the second key, and for encrypting the first key with the temporary key; and

transmitting means for transmitting the encrypted first key [[with]] <u>and</u> the temporary key <u>generated by the first authentication means</u>;

<u>the</u> decoding means comprising:

second authentication means for authenticating the first storage means ~~and sharing the temporary key with the first storage means~~;

receiving means for receiving the encrypted first key [[with]] <u>and</u> the temporary key from the first storage means; and

second encrypting/decrypting means for decrypting the encrypted first key with the temporary key;

wherein the decoding means decodes the information with the first key obtained by the second encrypting/decrypting means.

11.   (Currently amended) An information processing method comprising:

a first storage step of storing an encrypted first key encrypted by a second key;

a first authentication step of authenticating ~~the~~ a first ~~storage~~ decoding step and generating a temporary key, the temporary key being shared in the first decoding step;

a first encrypting/decrypting step of decrypting the encrypted first key with the second key, and encrypting the first key with the temporary key;

transmitting the encrypted first key ~~with~~ and the temporary key generated in the first authentication step;

[[a]] the first decoding step ~~that includes~~ including a second mutual authentication step of authenticating the first storage step ~~and for sharing the temporary key with the first storage step~~;

receiving the encrypted first key ~~with~~ and the temporary key;

a second encrypting/decrypting step of decrypting the encrypted first key with the temporary key; and

a second decoding step of decoding the information with the first key obtained by the second encrypting/decrypting step.

12.   (Currently amended) A program providing medium for providing a computer-readable program ~~with respect~~ to <u>cause</u> an information processing device <u>to perform a method,</u> comprising:

a first storage step of storing an encrypted first key encrypted by a second key;

a first authentication step of authenticating <u>a first encrypting/decrypting step</u> and generating a temporary key<u>, the temporary key being shared in the first encrypting/decrypting step</u>;

[[a]] <u>the</u> first encrypting/decrypting step [[of]] <u>including</u> encrypting/decrypting the encrypted first key with the second key and ~~for~~ <u>including</u> encrypting the first key with the temporary key;

transmitting the encrypted first key with the temporary key;

the program causing ~~the~~ <u>a</u> decoding means to execute processing comprising:

a second authentication step of authenticating the first storage step ~~and for sharing the temporary key with the first storage step~~;

receiving the encrypted first key with the temporary key from the first storage step;

a second encrypting/decrypting step of decrypting the encrypted first key with the temporary key; and

a third ~~decoding~~ <u>encrypting/decrypting</u> step of decoding the information with the first key obtained by the second encrypting/decrypting step.

Claims 13-71.   (Canceled)